OHIO ENVIRONMENTAL PROTECTION AGENCY (OEPA)

DIVISION OF EMERGENCY & REMEDIAL RESPONSE (DERR)

SITE INSPECTION (SI) WORK PLAN

STATEMENT OF PURPOSE: The purpose of this SI is to evaluate potential environmental hazards associated with the Toledo Tie Treatment Site. Data collected will be used to demonstrate whether or not the site is a likely candidate for the National Priorities List (NPL).

I. GENERAL INFORMATION:

Date of Work Plan: February 18, 1993

Expected Date of SI: March 15, 1993

Site Name: Toledo Tie Treatment Plant

U.S. EPA ID#: OHD987049202 Ohio ID#: 348-1377

Site Location: 3243 Frenchman's Road (Lot 29) and 315 Arco Drive (Lots 27 and 28)

County: Lucas

Latitude: 413809 Longitude: 833652

Site Representative:

Richard Lenner, (404) 355-6857
Attorney for David Kuniansky (owner of Lot 29 known as Spartan Chemical)

Richard Sargent
Attorney for Doral Steel (property at Lots 27 and 28)

OEPA Site Investigator: Kim Wylie

Map(s) Attached: Yes

U.S.G.S. Map Info (Quadrant): Toledo, Ohio

Ohio Priority: None

Utility Clearance: Underground Utilities will be contacted prior to visit.

Predicted number of samples:

Total number of soil sample locations: 9 (8 at Toledo Tie and 1 background)
Total number of sediment sample locations: 4 (3 at the site, one upstream)
Total number of surface water sample locations: 3 (2 at the site, one upstream)

II. SITE DESCRIPTION:

The Toledo Tie Treatment Site contains at least six parcels of land (approx. 21 acres) located at the Arco Industrial Park in Toledo, Ohio. The site is bordered on the north and west by industrial and commercial property, on the east by the Toledo Terminal Railroad, and on the south by Conrail. Williams Ditch runs adjacent to the property on the west and north perimeters.

Currently, the site consists of approximately six pieces of land located at the corner of Arco Drive and Frenchman's Road in the Arco Industrial Park. Based on OEPA files and aerial photos, the properties to be addressed in this investigation include Lot #25 (owner, Chance Realty & Rugby Associates), Lot #26 (owner, M.P. Wilkins Supply), Lots 27 & 28 (owner, Robert & Donna Smith), Lot #29 (owner, David Kuniansky) and Lot #30 (owner, City of Toledo). Other properties formerly part of the Toledo Tie Operations have been developed with buildings and parking lots.

III. SITE HISTORY:

The area to be investigated was used by Toledo Tie and the New York Central Railroad for railroad tie treatment operations, including creosote-treating, drip-drying and storing railroad ties. The site originally encompassed over 50 acres.

Through several changes in ownership, the site has become an industrial park for many businesses. In 1987, Bowser-Morner Associates, contractor for Doral Steel, performed a soil exploration of Lots 27 & 28 to characterize the soil strata for the construction of a warehouse; chemical odors were noted in the soil from depths of 4-9 feet. In 1988, Bowser-Morner collected soil samples from this area. Laboratory results indicated that a sufficient ratio of phenanthrene and carbazole concentrations were present in on-site soils to determine there was creosote contamination.

IV. SITE GEOLOGY & HYDROLOGY:

Toledo Tie is located in an area where the glacial drift is approximately 80 feet thick, and is composed of clayey materials with occasional seams of sand and gravel. Groundwater is encountered as shallow as three feet.

Carbonate bedrock is found at approximately 110-125 feet below ground surface. This confined aquifer consists of hard, dolomitic, porous limestone, and generally flows northeasterly toward Lake Erie.

V. FIELD WORK SUMMARY:

Soil

Waste management and soil contamination will be investigated with eight soil samples. Surface corings (less than two feet deep) and deep corings (more than two feet deep) will be sampled for submission to CLP. Chemical analyses will include volatile and semi-volatile organic compounds, pesticides/PCBs and TAL metals. Additionally, at least one background sample will be collected. The background sampling location(s) will be determined in the field.

Sediment

Four sediment samples will be taken in Williams Ditch: three adjacent to Toledo Tie and one upstream of the site.

Surface Water

Three surface water samples will be collected from Williams Ditch: two adjacent to Toledo Tie and one upstream of the site.

VI. INVESTIGATION-DERIVED WASTE PLAN:

If, in the best professional judgement of the site investigator, investigation-derived wastes can be rendered non-hazardous, the wastes will be double-bagged and deposited in an industrial dumpster on site or transported back to the OEPA Field Facility in Columbus, Ohio for disposal as directed in the Investigation-Derived Waste Management Guidance Manual (USEPA/540/G-91/009, May 1991).

Investigation-derived wastes will generally consist of disposable items: saranex, tyvek, vinyl and nitrile gloves, latex boot covers, kimwipes and detergent water. These items are used primarily for prevention of cross-contamination and for sanitary considerations during sampling activities.

Should contact with concentrated wastes occur, disposable gear and wastewater will be secured in a steel drum, on site if possible, until sample analysis results are received. If analytical data reveals significant contamination, as determined by the site coordinator, these wastes will be disposed of properly by a contracted, licensed hauling and disposal facility.

FIELD SAMPLING SUMMARY

	PARAMETER: VOC's	PARAMETER: BNA, Pest/PCB	PARAMETER: METALS, CYANIDE
MATRIX	SOIL	SOIL	SOIL
NUMBER OF CONTAINERS: (TYPE & VOLUME REQUIRED)	2 (125 ml) wide mouth glass jars per field sample	1 (250 ml) wide mouth glass jar per field sample	1 (250 ml) wide mouth glass jar per field sample
PRESERVATIVE	ICE	ICE	ICE
HOLDING TIME	14 DAYS	14 DAYS	Cyanide - 14 days; Metals - 6 months
# OF SAMPLES	8	8	8
DUPLICATES	1	1	1
BACKGROUND SAMPLES	1	1	1
TRIP BLANKS	--	--	--
MS/MSD	1 (From first sample collected)	1 (From first sample collected)	1 (From first sample collected)
# OF FIELD SAMPLES:	10	10	10
TOTAL NUMBER OF SAMPLE CONTAINERS:	20 - 125 ml clear, glass, wide-mouth jars	10 - 250 ml clear, glass, wide-mouth jars	10 - 250 ml clear, glass, wide-mouth jars

FIELD SAMPLING SUMMARY

	PARAMETER: VOC's	PARAMETER: BNA, Pest/PCB	PARAMETER: METALS, CYANIDE
MATRIX	SEDIMENT	SEDIMENT	SEDIMENT
NUMBER OF CONTAINERS: (TYPE & VOLUME REQUIRED)	2 (120 ml) wide mouth glass jars per field sample	1 (250 ml) wide mouth glass jar per field sample	1 (250 ml) wide mouth glass jar per field sample
PRESERVATIVE	ICE	ICE	ICE
HOLDING TIME	14 DAYS	14 DAYS	Cyanide - 14 days Metals - 6 months
# OF SAMPLES	3	3	3
DUPLICATES	1	1	1
BACKGROUND SAMPLES	1 upstream	1 upstream	1 upstream
TRIP BLANKS	–	–	–
MS/MSD	1 (From first sample collected)	1 (From first sample collected)	1 (From first sample collected)
# OF FIELD SAMPLES:	5	5	5
TOTAL NUMBER OF SAMPLE CONTAINERS:	10 - 125 ml clear, glass, wide-mouth jars	5 - 250 ml clear, glass, wide-mouth jars	5 - 250 ml clear, glass, wide-mouth jars

FIELD SAMPLING SUMMARY

	PARAMETER: VOC's	PARAMETER: BNA, Pest/PCB	PARAMETER: METALS	PARAMETER: CYANIDE
MATRIX	LEACHATE	LEACHATE	LEACHATE	LEACHATE
NUMBER OF CONTAINERS: (TYPE & VOLUME REQUIRED)	2 (40 ml) glass vials per field sample	4 (1 L.) amber glass bottles per field sample	1 (1 L.) polyethylene bottle per field sample	1 (1 L.) polyethylene bottle per field sample
PRESERVATIVE	HCl: pH<2 & ICE	ICE	HNO_3: pH<2	NaOH: pH>12
HOLDING TIME	14 DAYS	7 DAYS	6 MONTHS	14 DAYS
# OF SAMPLES	2	2	2	2
DUPLICATES	1	1	1	1
BACKGROUND SAMPLES	1 upstream	1 upstream	1 upstream	1 upstream
TRIP BLANKS	1 (2 - 40 ml vials per VOC cooler)	--	--	--
MS/MSD	1 Triple Volume	1 Double Volume	1 Double Volume	1 Double Volume
# OF FIELD SAMPLES:	5	4	4	4
TOTAL NUMBER OF SAMPLE CONTAINERS:	16 - 40 ml vials	24 - 1 L amber jars	6 - 1 L HDPE	6 - 1 L HDPE

TOLEDO TIE TREATMENT SITE

OEPA DERR SITE SAFETY PLAN

Site: Toledo Tie Treatment Site **Ohio ID Number:**

Address: 3243 Frenchman's Road and 315 Arco Drive, Toledo, Ohio

Prepared By: Kim Wylie **Date:** 2/22/93

Reviewed By: **Date:**

Date(s) of Investigation: March 16-18, 1993

Site Objectives:

To determine the presence or absence and concentrations of suspected contaminants, and to establish possible migration pathways from the site to the Ottawa River. To address the potential impact the site may have on the water quality of the Ottawa River.

Team Member:	Responsibilities:
Mike Czeczele	Operation Manager
Darlene Stanley	Quality Assurance
Kim Wylie	Site Investigator
Kim Wylie	Documentation
John Giltner	Sample Control
Ed Link	Decontamination
Karl Reinbold	Site Safety
John Giltner	Sampler

Media of Possible Exposure (circle):

Air (Soil) Ground Water (Surface Water)

Overall Site Risk/Hazard (circle):

Serious (Moderate) Low Medium

Facility Description/History (past and present use, existing activity, violations, complaints, reports of employee exposure, etc.):

The Toledo Tie Treatment Site operated as a railroad tie treatment facility from 1909 to 1962. Eight creosote-containing tanks, one zinc chloride tank and one mixing tank were removed from the site when the property transferred ownership. Aerial photos indicate two lagoons were present in the northwest corner of the site during creosoting operations.

Analysis of soil smples from location near the old lagoons indicate the presence of volatile and semi-volatile organic compounds, including constituents of creosote.

Topo Map Attached (circle)? (Yes) No

Zone(s) of Contamination Identified on a Map (circle)? (Yes) No

Level of Protection (circle): A B (C) (D)

Note: No smoking, eating or chewing gum. Minimum of steel-toed boots must be worn.

Field Equipment/Action Levels:

FSOP: 1.01 Always enter unknown site in Level B using PID and O_2 meter. Monitor continuously. If levels indicate 1-10 units above background, downgrade to Level C. If indications of no hazard, Level D is sufficient. Sampling drums should always be performed in Level B.

Directions to Site/Site Entry/Access:

From Columbus, take Route 23 North to I-75 North to I-475 West to Route 25 North to Route 20 North to South Avenue. Go East on South Ave. to Byrne Road and turn left (North) to Arco Drive. Go East on Arco to Frenchman's Road. The site is at the corner of Arco Dr. and Frenchman's Rd.

Personal Decontamination Procedures:

All personnel should wear appropriate disposable clothing. Wash with soap and water.

Equipment Decontamination Procedures:

FSOP: 10.01 Soap and tap water wash, tap water rinse, ASTM Type II water rinse, methanol rinse, then hexane rinse.

Emergency Information:

Is 911 Available (circle): Yes No

Ambulance: 911

Hospital Emergency Room: (419) 471-4101

Poison Control Center: (419) 381-3897

Police: 911

Fire Department: 911

Location of Nearest Telephone: Car phones

Location of First Aid Kit: On truck

Source of Potable Water: Water cooler

Directions to Hospital from Site (include map if possible):

Take Frenchman's Road east to Elmdale Avenue and turn left (North) to Hill Avenue and turn right (East). Take Hill to Westwood Avenue (becomes Douglas Rd.) and turn left (North). Proceed north to Kenwood Blvd. (becomes N. Cove Blvd.) and turn right (East). Follow the sign to the Toledo Hospital.

Evacuation Criteria to Consider: FSOP: 1.01

Table 1 - Task Analysis

List of potential physical hazards (complete items with asterisk to the best of your knowledge):

Include such items as: heavy traffic areas, overhead construction areas, work around excavation, work inside plant production area, etc...

Task*	Hazard*	Description/Location*	Procedure used to Monitor/Reduce Hazard
Sampling	Inhalation of contaminants	Soil	Microtip PID; APR
Sampling	Tripping	Overgrown vegetation	Be cautious
Sampling	Traffic accidents	Site intersected by roadways. Also along railroad tracks	Observe traffic safety rules

OhioEPA
State of Ohio Environmental Protection Agency

P.O. Box 1049, 1800 WaterMark Dr.
Columbus, Ohio 43266-0149
(614) 644-3020
FAX (614) 644-2329

George V. Voinovich
Governor

Donald R. Schregardus
Director

CONSENT FORM

By authorized signature below, the Ohio Environmental Protection Agency (OEPA), its employees and contractors are given consent by Chance Realty to enter upon that certain property located at 367 Arco Drive under the following conditions:

1. The activities to be conducted on the property will include:

   a) OEPA personnel will collect soil samples on this site.

   b) OEPA will bring on site vehicles and equipment necessary to support the collection of samples.

2. Entry upon the property and the activities to be performed thereon shall be conducted in cooperation with the owner and in a manner least disruptive to the operations of the owner and current tenants, if any, on the property.

The owner acknowledges that the consent granted to OEPA, its employees and contractors to enter onto the property and perform the activities described herein has been freely and voluntarily given.

Signature _____ Title _____

Printed Name _____ Phone Number _____

Date _____

OhioEPA
State of Ohio Environmental Protection Agency

P.O. Box 1049, 1800 WaterMark Dr.
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George V. Voinovich
Governor

Donald R. Schregardus
Director

CONSENT FORM

By authorized signature below, the Ohio Environmental Protection Agency (OEPA), its employees and contractors are given consent by Rugby Associates to enter upon that certain property located at 339 Arco Drive under the following conditions:

1. The activities to be conducted on the property will include:

   a) OEPA personnel will collect soil samples on this site.

   b) OEPA will bring on site vehicles and equipment necessary to support the collection of samples.

2. Entry upon the property and the activities to be performed thereon shall be conducted in cooperation with the owner and in a manner least disruptive to the operations of the owner and current tenants, if any, on the property.

The owner acknowledges that the consent granted to OEPA, its employees and contractors to enter onto the property and perform the activities described herein has been freely and voluntarily given.

Signature _____ Title _____

Printed Name _____ Phone Number _____

Date _____